Sample Initial Project Assessment (PA)

INITIAL PROJECT ASSESSMENT

TRACS No. H 6221 01L Project No. TEA-087-B-(3)A Mesa – Payson Highway

Landscaping for

State Route 87 Payson, Arizona

Prepared for the ARIZONA DEPARTMENT OF TRANSPORTATION

By
Engineering and Environmental Consultants, Inc.

September 27, 2002

A. INTRODUCTION

TRACS. No. H6 221 01L

Project No. TEA-087-B-(3) A

Project Name: SR-87 Payson Landscaping

Programmed mile posts: mp 250.30 to mp 252.30

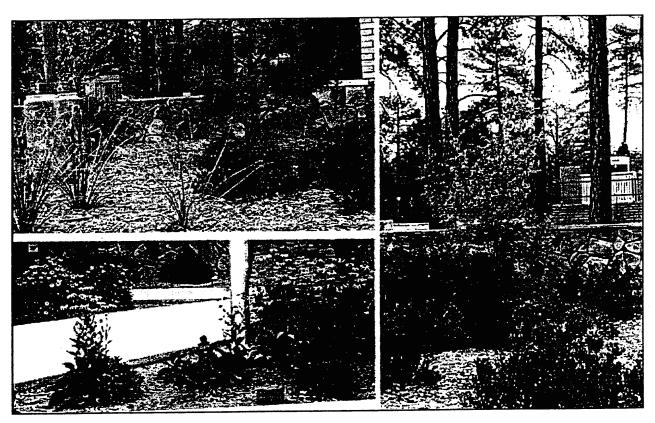
Project Route No.: State Route 87

This project is located within the Town of Payson, AZ.; Yavapai County; Prescott District

Current Programming Status:

The AASHTO classification of this project is: Urban Principle Arterial

The purpose of this project is to provide landscaping and scenic beautification all within existing ADOT right-of-way along a two mile section of SR-87 from the southern boundary of Payson (MP 250.30) to a point north of the intersection of SR-87 and SR-260 (MP 252.30). The landscaping and beautification will be consistent with the territorial design theme of Payson's Green Valley Redevelopment Area. The landscaping will utilize low water use xeriscape concepts in combination with low maintenance plants to provide an attractive image. The Town of Payson will maintain in perpetuity all improvements provided with this enhancement project.



Typical planting character

ADOT will provide the funding for the construction and design of this project. The funding is a combination of Federal TEA-21 and State funds. The original grant application estimated construction cost at \$326,656 excluding the \$5,000.00 ADOT processing fee and design cost. The State would contribute 5.7% (\$18,619) of the construction cost. After construction is complete, the source of funds for maintenance and repair on an ongoing basis will be through the Town of Payson's maintenance operating funds.

The estimated construction cost determined from this Project Assessment is \$331,000.00. Refer to Section F for the break down of the cost estimate.

B. BACKGROUND DATA

1. Original and subsequent construction projects:

Mesa-Payson HWY .: F-0531-801, 1966

Landscaping: H 2663 01C, 1990

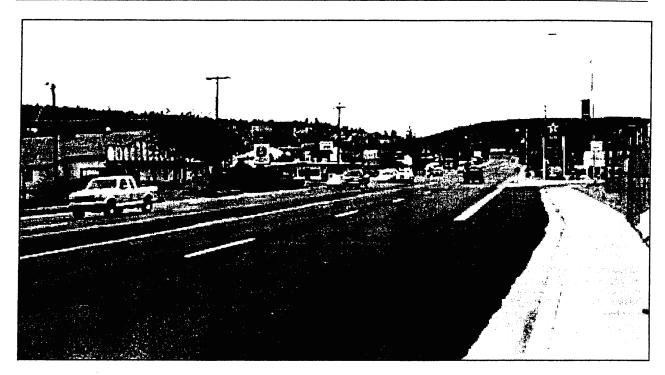
Mesa-Payson Highway: H 3239 01C, 1995

Payson Streets: H 4897 01C, 2001

- 2. The project is located within gently rolling terrain starting at the southern end at an elevation of 4995 feet descending to 4955 feet. The project roadway consists of four lanes with a center turn lane, and has two signalized intersections. There are sidewalks on both sides of the roadway varying in width from 4ft. to 5ft. There are overhead utility lines in the right-of-way which need to be considered with tree plantings. The corridor is primarily urban, with commercial development along the majority of the project, and is the main thoroughfare for the Town.
- 3. The posted speed limit for the southern end (0.2 miles) is 45 mph; the remainder of the project is 35 mph.
- 4. The following is a summary of the available traffic study data for this section of SR87.

Average Annual Daily Traffic (AADT) values for the project area:

- 1996: 21,544 ADT K=17% (1998 Value)
- 1997: 24,770 ADT D=50% (1998 Value)
- 1998: 25,200 ADT T=5% (1998 Value)



Typical character of roadway

- 5. The project's right-of-way varies from a maximum of 300-feet at the southern end, where the roadway has cut and fill slopes; to 100-feet through town; widening again to 200-feet at the SR-87/SR260 intersection. The existing pavement width including curb, gutter and sidewalk typically measures approximately 78 feet (with the exception of right turn lanes). The remaining right-of-way on each side of the road measures 11ft. to 12 ft. No utilities will be relocated and no new right-of-way or easements will be required for this project.
- There appears to be an old gas station adjacent to the project's right-of-way, but there is no opportunity for new landscape improvements in the vicinity of the old facility.
- 7. Several utilities lie within the project area including: sanitary sewer, water, natural gas, electric, telephone, and cable television. There are no railroad crossings in the project, and all utilities will be designed around and avoided.

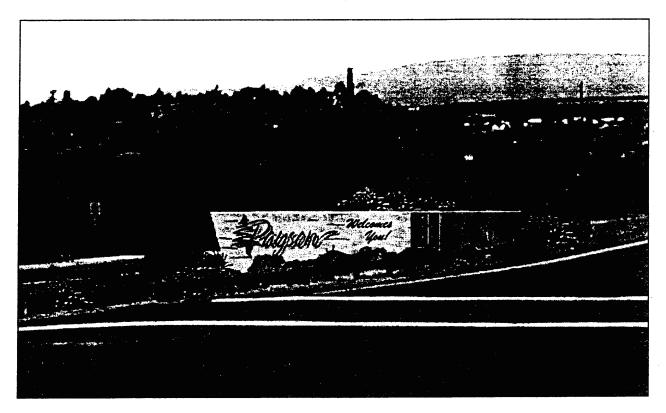
C. PROJECT SCOPE

1. Improvements Description

The project consists of installing new landscape enhancements along this two mile section of SR-87 within the Town of Payson (refer to plan sheets Appendix A). The project extends from Payson's southern boundary near Green Valley Pkwy. (MP

250.90) to the intersection of SR-87 and SR-260 (MP 252.60). The southern one-mile is within Payson's Green Valley Redevelopment Area. Landscape enhancements in the form of trees, shrubs and accent plantings, decomposed granite, rock rip-rap, boulders and themed signage will create a more aesthetically pleasing roadside along SR-87. The roadway has commercial development along the majority of the project with some existing landscaping and numerous commercial signs and miscellaneous structures in the foreground and mountainous terrain in the background. This project will also help to unify and create a more cohesive streetscape theme through the town.

Signage will be added at several locations. A main monument sign is proposed at Payson's southern boundary just north of the Green Valley Parkway / SR-87 intersection. This sign will act as the town's welcome sign. There is no curb at this location; therefore, the installation of a guardrail will be required for both northbound and southbound lanes.



Entry Monument Sign Concept

Additional wayfinding signage is proposed at locations approaching Main Street and the Chamber of Commerce. These signs will notify motorists of the direction to Payson's galleries, museums, park, lake, and golf course. The signage design will compliment the rock treatment of the landscaping enhancements. The signs will be located out of motorist sight visibility clear zones. (Refer to Appendix B for signage concepts).

Benches and a ramada will be located in the vicinity north of the Chamber of Commerce building if space permits. This area is outside of ADOT right-of-way and will require the coordination of the town and Chamber of Commerce. The ramada and benches will

- 5. This project is not located in a non-attainment area.
- 6. This project will be reviewed by ADOT, the Town of Payson, and the Green Valley Redevelopment Committee.
- 7. Construction will be done during the day. Construction season is all year.
- 8. The need for new right-of-way or Temporary Construction Easements is not anticipated. A Temporary Construction Easement may be required for the ramada construction if it is not located within ADOT or Town right-of-way.
- 9. No utility conflicts are expected, but ADOT's Utility and Railroad Engineering Section or a consultant as assigned will investigate. The utility clearance letter will be prepared by ADOT's Utility and Railroad Engineering Section.
- 10. Traffic Control requirements will be addressed by references to the MUTCD Traffic Control Manual and/or by Special Provisions that will be prepared by ADOT Traffic Design Section if needed.

E. OTHER REQUIREMENTS

This project will be built with Federal and State funds with design and construction administration by the Arizona Department of Transportation.

The Program and Project Scheduling CPS ID is EH1F. No bid advertisement date has been established. It is anticipated that this project will be bid during fiscal year 2004 (See attached Project Schedule).

F. ESTIMATED COSTS

The project costs are based on the assumption that very limited if any permanent irrigation will be installed. The plants will be installed assuming the town will provide watering until plants are established and can survive without supplemental irrigation. The latest edition of ADOT's published "Construction Costs" along with recently bid landscape projects were used to obtain unit costs for the estimate.

Summary of Cost Estimate

Plants and minor irrigation installation: \$70,000

Rock / inert ground cover: \$73,000

Street Furniture and related work: \$28,500

Signage and related work: \$34,000

Other construction "soft" costs: \$125,500

Design costs: \$46,700

Total Project Costs: \$377,700

Preliminary Project Costs for this project were based on the following:

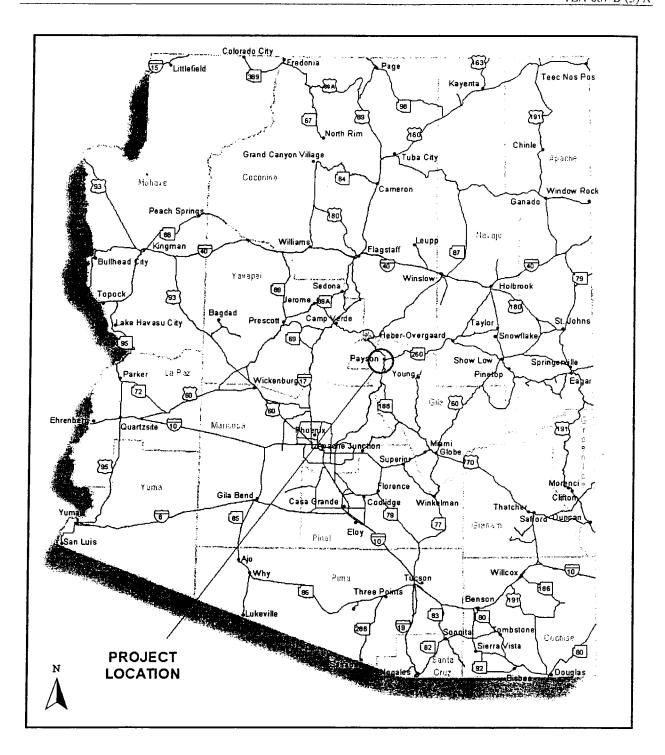
- A. <u>Design Costs</u> (Including engineering and landscape architecture services) have been projected based on experience with this cost category on similar projects or portions of projects.
- B. Right-of-Way Costs will not be required.
- C. <u>Utility Relocation</u> will not be required.
- D. <u>Construction Costs</u> have been estimated on the basis (1) existing cost of materials and how they may likely change by the time of project construction, (2) construction cost to construct the project taking into account overhead, project and transportation costs, etc. Construction costs are projected to be reimbursed with federal funds.
- E. <u>Total project costs</u> will be met by TEA-21 Federal funds (94.3%) and State funds (5.7%).

G. ACTION REQUIRED

Action will be required by the Priority Planning Action Committee in order to program this project.

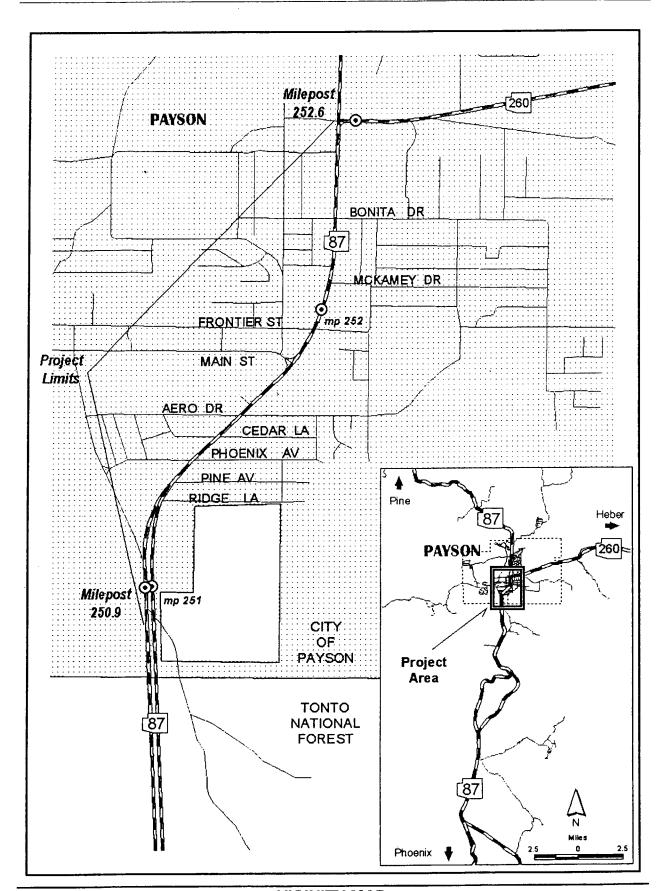
TYPICAL DETAILED COST ESTIMATE

Item	Unit	Qty.	Unit price	Total Amount	Fed. Funds Not to exceed 94.3%	local funds May exceed 5.7%
DESIGN (8-12%)			 		exceed 94.5%	5.7%
RIGHT-OF-WAY ACQUISITION		1				
UTILITIES						
TRAFFIC CONTROL (0-8%)		 				
CLEARING AND SITE PREPARATION		 	Varies			
DEMOLITION & REMOVAL OF EXISTING FEATURES		1	Varies			• • • • • • • • • • • • • • • • • • • •
MULTI-USE PATHWAY (10')	Sq. Ft.	 				
C-05.20			3.50			
Integral Color Concrete			5.50			
Asphalt			1.75			
CONCRETE SIDEWALK C-05.20	Sq. Ft.	1				
Integral Color	j		3.50 5.50			
PEDESTRIAN RAMP	Sq. Ft.	ļ	12.00			
CROSSWALK	Sq. Ft.		12.00			
Concrete Paver	Sq. r t.		10.00			
Stamped Asphalt		1	6.00			
Stamped Concrete	ĺ		8.00			
Concrete			4.00			
Integral Color Concrete PEDESTRIAN LIGHTING			6.00			
	Each		2,500.00			
TREES (15 GALLON) (MAX ALLOWABLE SIZE)	Each		75.00			
TREES (5 GALLON)	Each		35.00			
SHRUBS (5 GALLON)	Each		20.00			
SHRUBS (1 GALLON)	Each		8.00			
CACTUS (5 GALLON)	Each		35.00			
DECOMPOSED GRANITE	Sq. Yd.	1 1	2.00			
TOPSOIL	Cu.Yd.		35.00			
SEEDING	Acre	 	1,200.00			
TURF SOD	Sq. Yd.	-	3.50			
BOULDERS	Each		250.00			
IRRIGATION SYSTEM	Sq. Ft.		230.00			
Drip	Sq. Ft.		0.60			
Turf			0.75			
IRRIGATION SYSTEM BOOSTER PUMP	Each		25,000.00			
SLEEVING FOR IRRIGATION SYSTEM	L. Ft.					
Directional Bore			100.00			
Cut and Patch			80.00			
BENCHES	Each		800.00			
SEATWALLS	L. Ft.		75.00			
BIKE RACK	Each		350.00			
TRASH RECEPTACLES	Each		250.00			
DRINKING FOUNTAINS	Each		3000.00	-		
BOLLARDS	Each					
Stationary			200.00			
Removable			500.00			
TREE GRATES	Each		500.00			
HANDRAIL	L. Ft.	Γ	20.55			
Standard Decorative			20.00 50.00			
LANDSCAPE HEADER CURB	L. Ft.		7.00			
RETAINING WALL (Concrete)	Cu.Yd.		500.00			
CULVERT EXTENSION	L. Ft.		1000.00		-	
CURB & GUTTER						
	L. Ft.		10.00			
MOBILIZATION (8% Typical)						
STORM WATER POLLUTION PREVENTION PLAN LANDSCAPE ESTABLISHMENT (4.5% Typical)						
						
CONSTRUCTION SURVEY (1% Typical)						
OTHER	_					
CHANGE ORDERS (5% Typical)						
CONSTRUCTION ADMINISTRATION (Avg. 18%)						
PROJECT TOTAL COST						

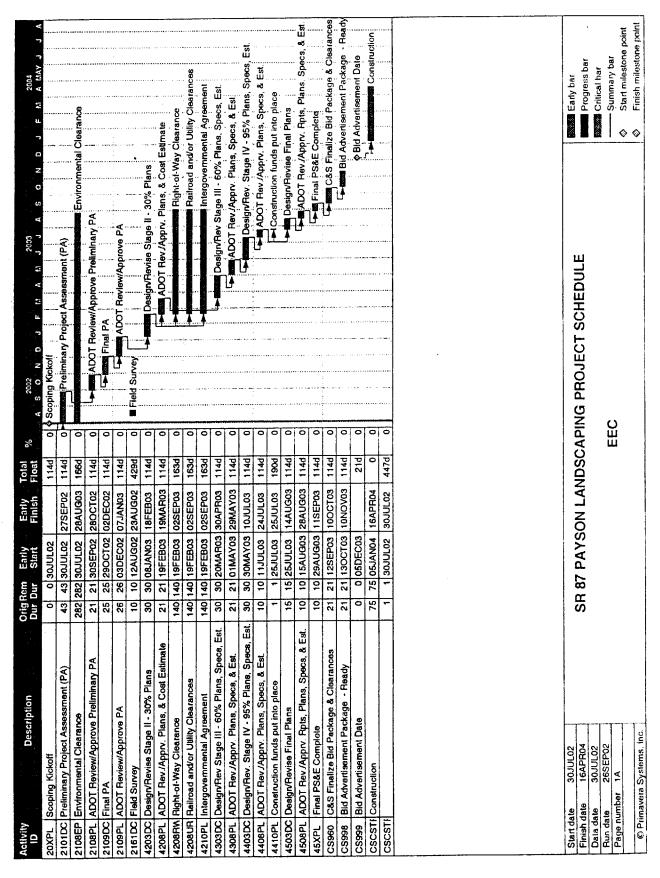


STATE LOCATION MAP

×357



VICINITY MAP



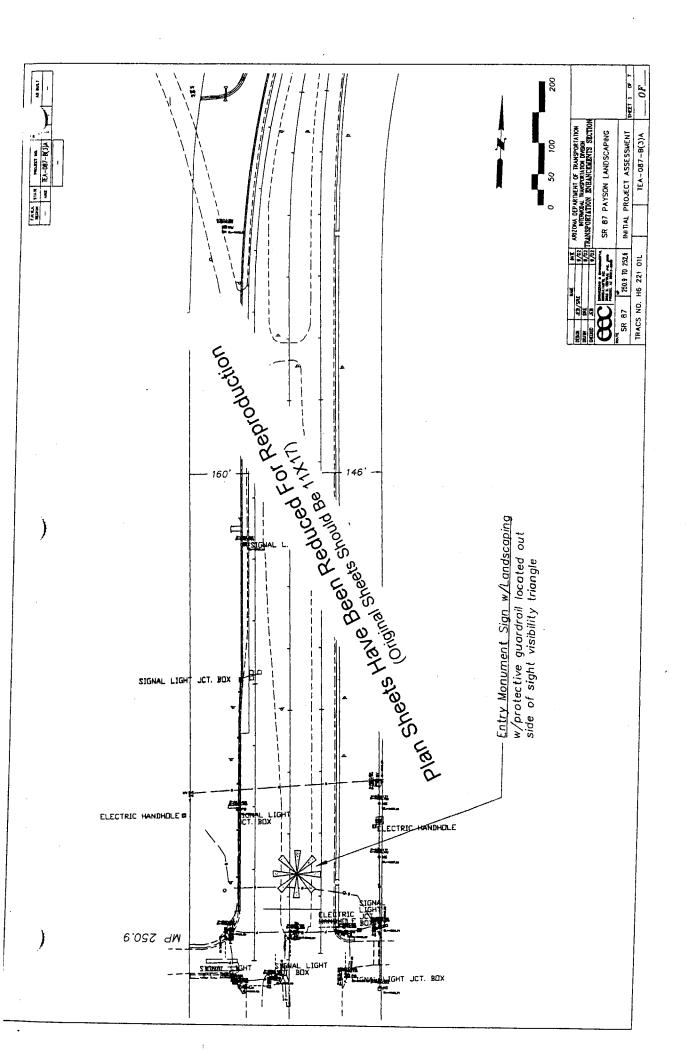
PROJECT SCHEDULE

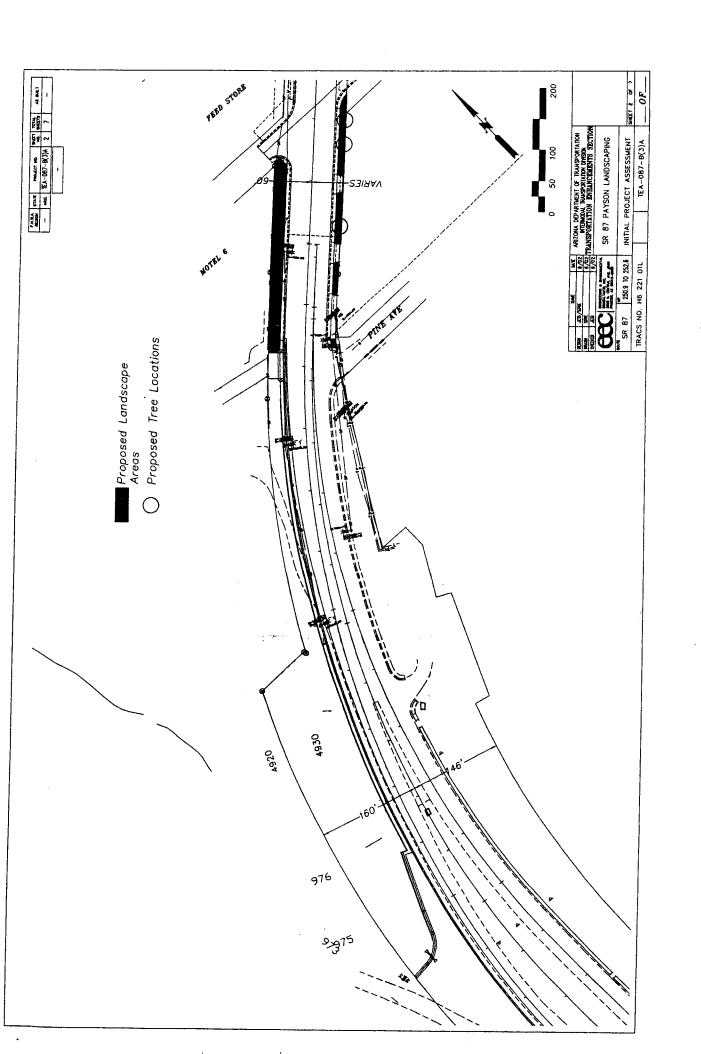
PROJECT H 6221 01L SR 87 PAYSON LANDSCAPING, PAYSON I N V O L V E M E N T S H E E T

		,					
				INVOLVEMENT	ENT		
FIELD	CONTACT	SERVICE	SIGNIFICANT	KINIKIN	NONE	UNKNOWN	COMMENTS (ISSUES WHICH MAKE INVOLVEMENT SIGNIFICANT OF MINIMAL)
×	×	PRESCOTT DISTRICT	×				CONSTRUCTION ENGINEERING AND ADMINISTRATION
	×	ROADWAY		×			SIGN / GUARDRAIL REVIEW
	×	RIGHT-OF-WAY		×			RIGHT OF WAY CLEARANCE LETTER
		ELECTRICAL DESIGN			×		
	×	TRAFFIC DESIGN SECTION		×			TRAFFIC CONTROL REQUIREMENTS
		BRIDGE DESIGN			×		
×	×	PROGRAM & PROJECT MGMT.		×			SCHEDULING
	×	MATERIALS		×			SIGN MATERIAL REVIEW
		GEOTECH			×		
×	×	ENVIRONMENTAL. PLANNING	×				ENVIRONMENTAL DOCUMENTATION AND CLEARANCE LETTER
×	×	UTILITY & RAILROAD	·	×			UTILITY CLEARANCE LETTER
	×	ENGINEERING			×		
		PHOTOGRAMMETRY & MAPPING			×		
	×	ROADSIDE		×			LANDSCAPE REVIEW
	×	CONTRACTS &	×				REVIEW PLANS/SPECIFICATION/ESTIMATE PACKAGE, ADVERTIZE FOR BIDS
×		TOWN OF PAYSON	×				
		FHWA		×			FEDERAL FUNDING. PROJECT WILL BE ADMINISTRATED UNDER CERTIFICATE ACCEPTANCE PROCEDURE
×		ENHANCEMENT & SCENIC ROADS	×				PROJECT MANAGER, RON McCANN
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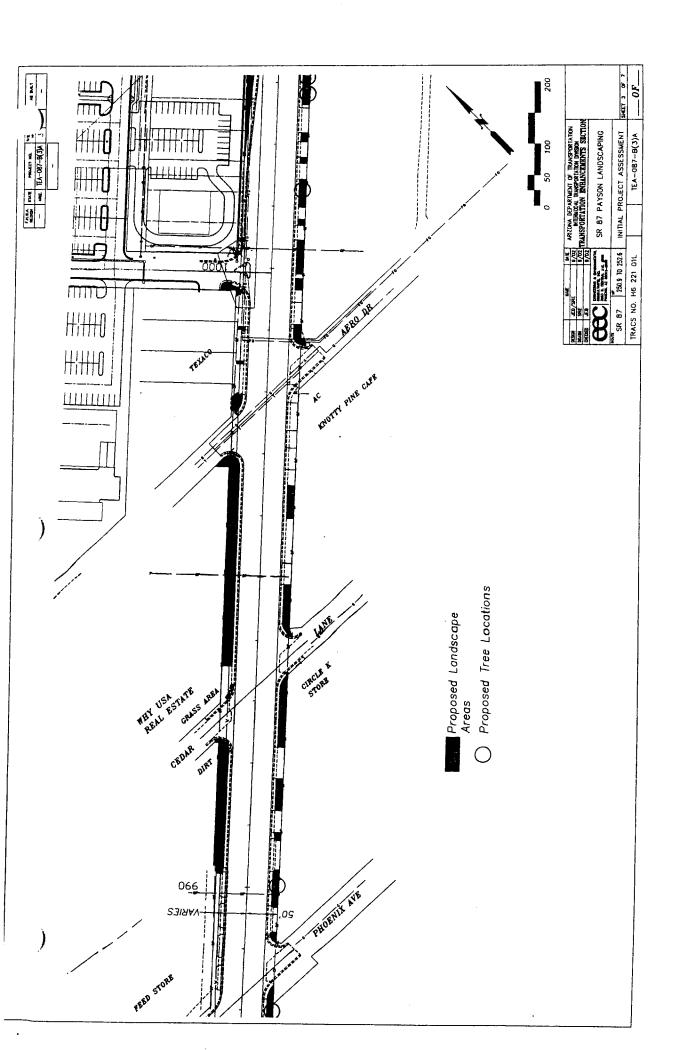
INVOLVEMENT SHEET

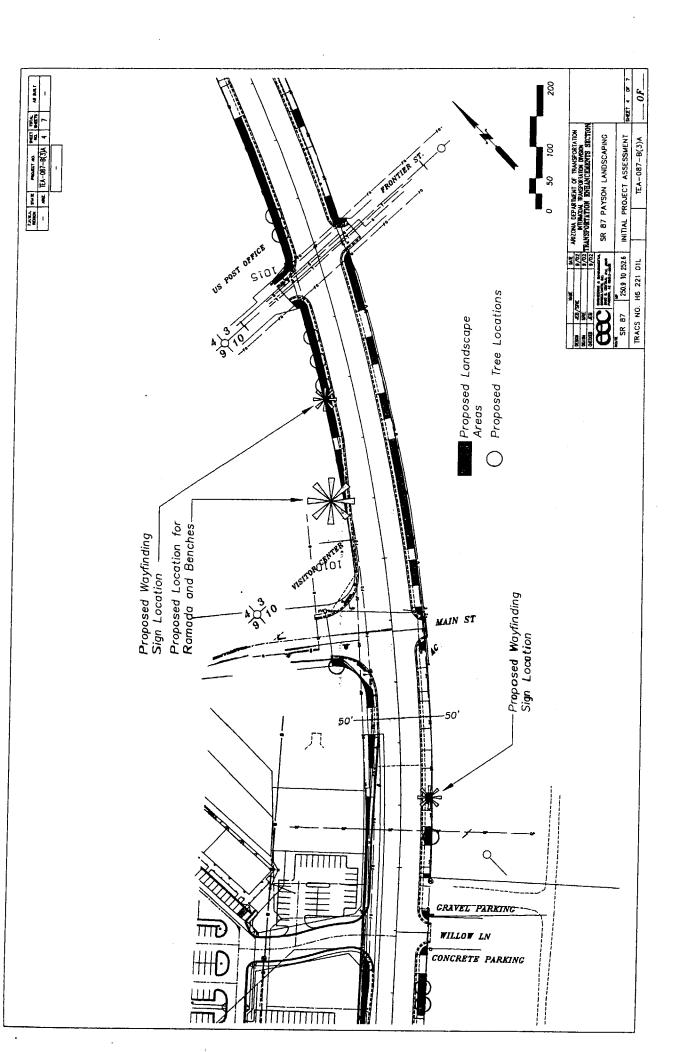
APPENDIX A

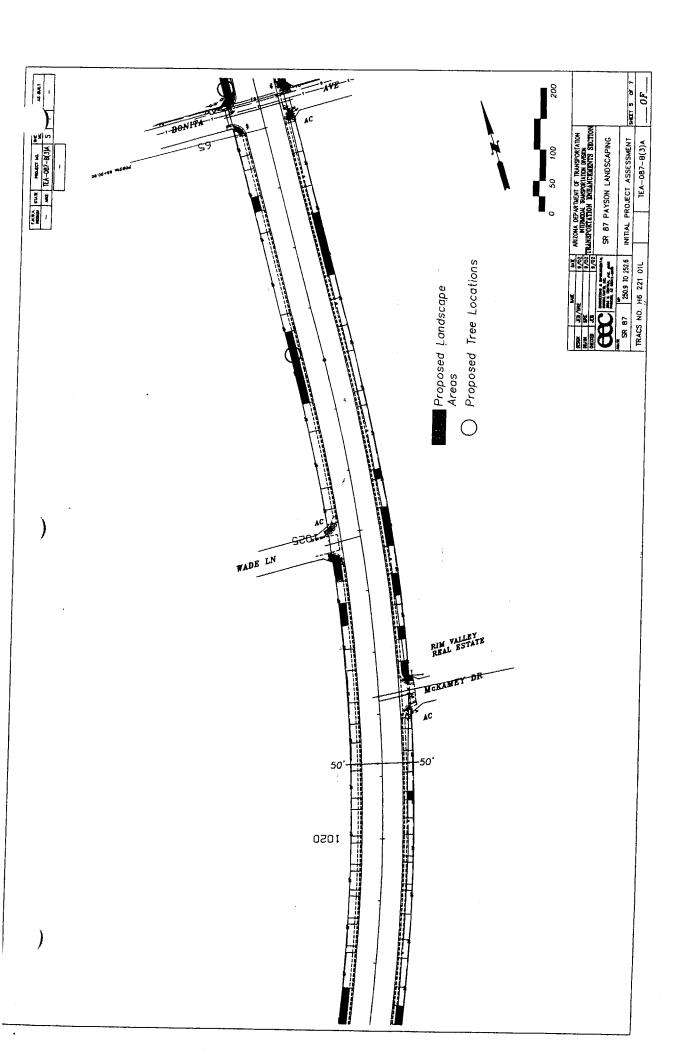


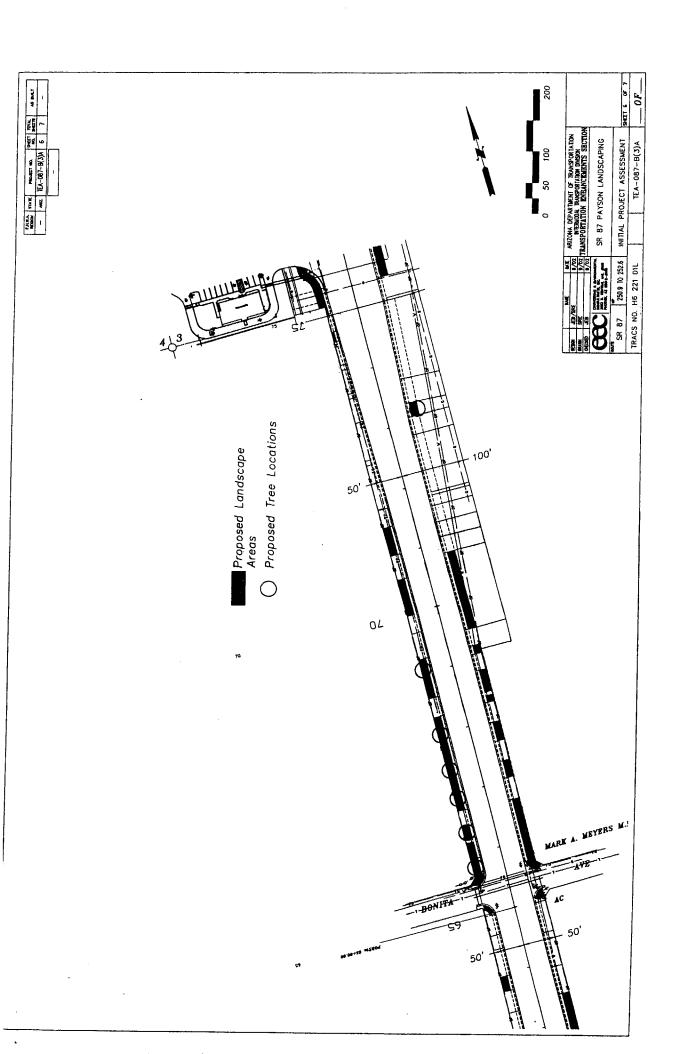


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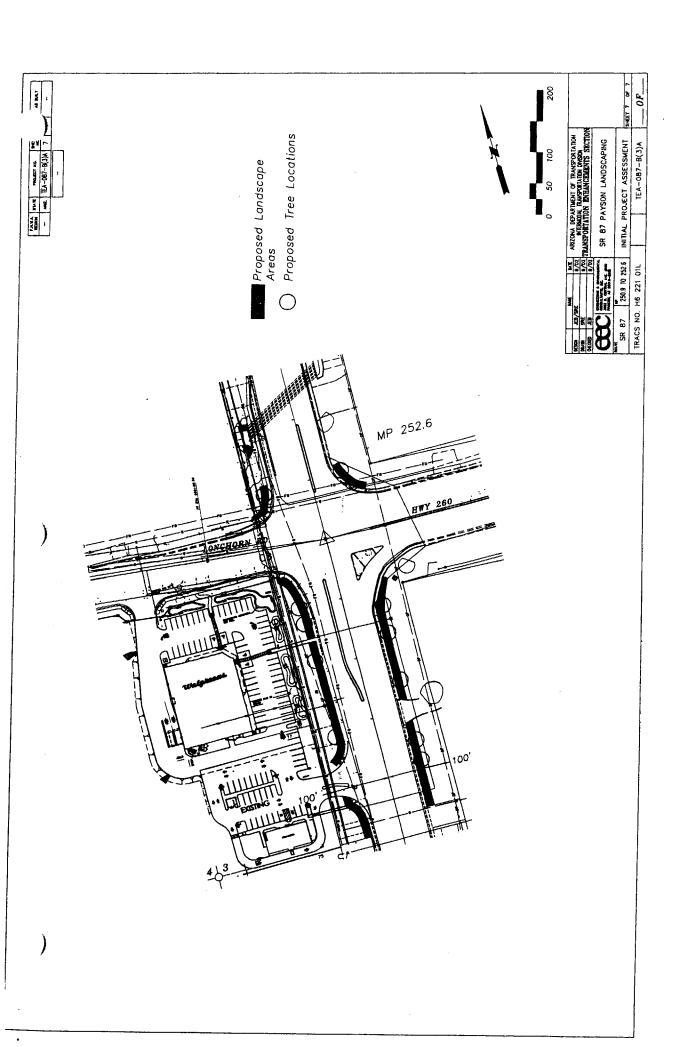


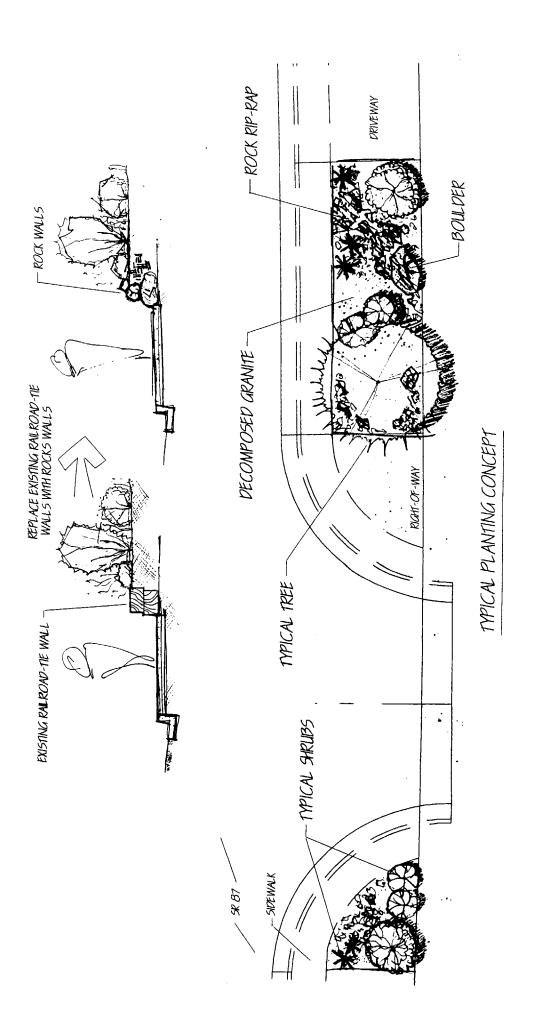






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APPENDIX B

